

AMENDMENTS

IN THE CLAIMS:

Please amend the claims to read as follows:

- 1-33. (canceled).
34. (currently amended) A [[P]]process for preparing acarbose, comprising the steps of:
- (i) expressing DNA in a suitable transforming a host cell with a recombinant DNA molecule which comprises acarbose-synthesizing genes, and
 - (ii) culturing said host cell under conditions such that said DNA molecule is expressed, and said acarbose is synthesized, and
 - (iii) isolating said acarbose from culture supernatants of said host cell acarbose, wherein said DNA molecule is selected from the group consisting of (a) the nucleotide sequence of SEQ ID NO:7; (b) a nucleotide sequence which is capable of hybridizing, under stringent conditions, with the sequence of SEQ ID NO:7; (c) nucleotides 1-720 of Table 4 (b) SEQ ID NO:7; (d) nucleotides 720[[to]]-2006 of Table 4 SEQ ID NO:7; ([c])e nucleotides 2268-3332 of Table 4 SEQ ID NO:7; ([d])f nucleotides 3332-4306 of Table 4 SEQ ID NO:7; ([e])g nucleotides 4380-5414 of Table 4 SEQ ID NO:7; and ([f])h nucleotides 5676-6854 of Table 4 SEQ ID NO:7.
35. (currently amended) A [[P]]process for preparing acarbose according to Claim 34, wherein said host cell is selected from the group consisting of E. coli, Bacillus subtilis, Streptomyces, Actinoplanes, Ampullariella or Streptosporangium strains, Streptomyces hygroscopicus var. limoneus or

~~Streptomyces glaucescens, Aspergillus niger, Penicillium chrysogenum and Saccharomyces cerevisiae E. coli, Bacillus subtilis, Streptomyces, Actinoplanes, Ampullariella or Streptosporangium strains, Streptomyces hygroscopicus var. limoneus or Streptomyces glaucescens, Aspergillus niger, Penicillium chrysogenum and Saccharomyces cerevisiae.~~

36. (currently amended) ~~A [[P]]~~process for preparing acarbose comprising the steps of:
 - (i) eliminating ~~DNA in a natural acarbose or altering endogenous acarbose-synthesizing genes in a transformed, naturally-producing acarbose host cell; and,~~
 - (ii) ~~culturing said host cell under conditions such that the remaining genes are expressed, and acarbose is synthesized; and,~~
 - (iii) isolating acarbose from said host cell; wherein said ~~DNA is remaining genes alter the acarbose biosynthesis rate, and are selected from the group consisting of (a) nucleotides 1-720 of Table 4 SEQ ID NO:7, (b) nucleotides 720[[to]]-2006 of Table 4 SEQ ID NO:7; (c) nucleotides 2268-3332 of Table 4 SEQ ID NO:7; (d) nucleotides 3332-4306 of Table 4 SEQ ID NO:7; (e) nucleotides 4380-5414 of Table 4 SEQ ID NO:7; and (f) nucleotides 5676-6854 of Table 4 SEQ ID NO:7.~~
37. (currently amended) ~~A [[P]]~~process for preparing acarbose according to Claim 36, wherein said host cell is selected from the group consisting of ~~streptomyces glaucescens GLA.O and Actinoplanes sp~~ ~~streptomyces glaucescens GLA.O and Actinoplanes sp~~.
- 38-48. (canceled).